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1 [Document Formatting Systems: Survey, Concepts, and Issues](#)



Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

**Publisher:** ACM Press

Full text available: pdf(5.36 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Interactive Editing Systems: Part I](#)



Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

**Publisher:** ACM Press

Full text available: pdf(3.08 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

3 [Document image understanding](#)



Sargur N. Srihari

November 1986 **Proceedings of 1986 ACM Fall joint computer conference ACM '86**

**Publisher:** IEEE Computer Society Press

Full text available: pdf(1.38 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 [Automatic temporal layout mechanisms](#)



M. Cecelia Buchanan, Polle T. Zellweger

September 1993 **Proceedings of the first ACM international conference on Multimedia MULTIMEDIA '93**

**Publisher:** ACM Press

Full text available: pdf(109.15 KB)

ps(451.70 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** automatic scheduling, automatic temporal layout, media synchronization, multimedia document formatting, temporal constraints

5 [Automatic temporal layout mechanisms revisited](#)



M. Cecelia Buchanan, Polle T. Zellweger



February 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A traditional static document has a spatial layout that specifies where objects in the document appear. Because multimedia documents incorporate time, they also require a temporal layout, or schedule, that specifies when events in the document occur. This article argues that multimedia document systems should provide mechanisms for automatically producing temporal layouts for documents. The major advantage of this approach is that it makes it easier for authors to create and modify multimedia do ...

**Keywords:** Multimedia documents, multimedia authoring, temporal formatting, temporal specification

## 6 What is text, really?



Steven J. DeRose, David G. Durand, Elli Mylonas, Allen H. Renear

August 1997 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(1.20 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

THE WAY IN WHICH TEXT IS represented on a computer affects the kinds of uses to which it can be put by its creator and by subsequent users. The electronic document model currently in use is impoverished and restrictive. The authors argue that text is best represented as an ordered hierarchy of content object (OHCO), because that is what text really is. This model conforms with emerging standards such as SGML and contains within it advantages for the writer, publisher, and researcher. The authors ...

## 7 Information services: A document model for multimedia information

J. Emery, A. Karmouch

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2 CASCON '93**

Publisher: IBM Press

Full text available: pdf(943.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Multimedia documents differ significantly from traditional documents, which are composed of text and possibly geometric graphics. The inclusion of continuous media such as audio and video imposes new requirements on document representation. The MEDIADOC model supports the creation of multimedia documents by means of a logical structure, a layout structure, and a rendering scenario that is a schedule for document playback. Special document creation tools are also required to facilitate the potent ...

## 8 Document authoring, markup and manipulation 2: Enhancing composite digital documents using XML-based standoff markup



Peter L. Thomas, David F. Brailsford

November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

Publisher: ACM Press

Full text available: pdf(695.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document representations can rapidly become unwieldy if they try to encapsulate all possible document properties, ranging from abstract structure to detailed rendering and layout. We present a composite document approach wherein an XML-based document representation is linked via a 'shadow tree' of bi-directional pointers to a PDF representation of the same document. Using a two-window viewer any material selected in the PDF can be related back to the corresponding material in the XML, and vice ve ...

**Keywords:** MathML, MusicXML, PDF, XBL, XML, composite documents, standoff markup

9 Special issue: AI in engineering

D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92**Publisher:** ACM PressFull text available: pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

10 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3**Publisher:** ACM PressFull text available: pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

11 TextTiling: segmenting text into multi-paragraph subtopic passages

Marti A. Hearst

March 1997 **Computational Linguistics**, Volume 23 Issue 1**Publisher:** MIT PressFull text available: pdf(2.46 MB) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

TextTiling is a technique for subdividing texts into multi-paragraph units that represent passages, or subtopics. The discourse cues for identifying major subtopic shifts are patterns of lexical co-occurrence and distribution. The algorithm is fully implemented and is shown to produce segmentation that corresponds well to human judgments of the subtopic boundaries of 12 texts. Multi-paragraph subtopic segmentation should be useful for many text analysis tasks, including information retrieval and ...

12 Document layout: Minimum sized text containment shapes

Nathan Hurst, Kim Marriott, Peter Moulder

October 2006 **Proceedings of the 2006 ACM symposium on Document engineering DocEng '06****Publisher:** ACM PressFull text available: pdf(10.27 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In many text-processing applications, we would like shapes that expand (or shrink) in size to fit their textual content. We address how to efficiently compute the minimum size for such text shapes. A variant of this problem is to take a fixed shape and determine the maximal size font that will still allow the content to fit into it. Our approach is to model the problem as a constrained optimisation problem with a single variable that controls the geometry of the text shape. We use a variant of s ...

**Keywords:** adaptive layout, constrained optimization, textbox

13 Broad coverage paragraph segmentation across languages and domains

Caroline Sporleder, Mirella Lapata

July 2006 **ACM Transactions on Speech and Language Processing (TSLP)**, Volume 3 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(300.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article considers the problem of automatic paragraph segmentation. The task is relevant for speech-to-text applications whose output transcripts do not usually contain punctuation or paragraph indentation and are naturally difficult to read and process. Text-to-text generation applications (e.g., summarization) could also benefit from an automatic paragraph segmentation mechanism which indicates topic shifts and provides visual targets to the reader. We present a paragraph segmentation mod ...

**Keywords:** Machine learning, paragraph breaks, segmentation, summarization

#### 14 Hints for computer system design

Butler W. Lampson

October 1983 **ACM SIGOPS Operating Systems Review , Proceedings of the ninth ACM symposium on Operating systems principles SOSP '83**, Volume 17 Issue 5

**Publisher:** ACM Press

Full text available: [pdf\(1.73 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Experience with the design and implementation of a number of computer systems, and study of many other systems, has led to some general hints for system design which are described here. They are illustrated by a number of examples, ranging from hardware such as the Alto and the Dorado to applications programs such as Bravo and Star.

#### 15 Translating among processable multi-media document formats using ODA

Jonathan Rosenberg, Mark S. Sherman, Ann Marks, Frank Giufrida

January 2000 **Proceedings of the ACM conference on Document processing systems DOCPROCS '88**

**Publisher:** ACM Press

Full text available: [pdf\(730.38 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 16 The C-ODA project: online access to electronic journals

Peter Kirstein, Goli Montasser-Kohsari

June 1996 **Communications of the ACM**, Volume 39 Issue 6

**Publisher:** ACM Press

Full text available: [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

#### 17 Using macros & style sheets to aid in document layout

Kenneth E. Gadomski, Karen M. Kral

August 1990 **Proceedings of the 18th annual ACM SIGUCCS conference on User services SIGUCCS '90**

**Publisher:** ACM Press

Full text available: [pdf\(608.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

With the advent of "desktop publishing" and laser printers, writers are increasingly expected to do complicated formatting tasks. For example, technical writing students are required to lay out as well as to write brochures and other documents; Master's and doctoral candidates must follow an intricate set of formatting guidelines formulated by Graduate Studies offices; and authors are frequently called upon to provide publishers with camera-ready copy of book and article manuscript ...

#### 18 CHECK: a document plagiarism detection system

Antonio Si, Hong Va Leong, Rynson W. H. Lau

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing SAC '97**



**Publisher:** ACM Press

Full text available: pdf(807.83 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** copy detection, digital libraries, document plagiarism, information retrieval

**19** Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona



Thomas Haigh

January 2006 **ACM Oral History interviews**

**Publisher:** ACM Press

Full text available: pdf(761.66 KB) Additional Information: [full citation](#), [abstract](#)

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

**20** Auto-updating as a technical documentation tool



George Towner

January 2000 **Proceedings of the ACM conference on Document processing systems  
DOCPROCS '88**

**Publisher:** ACM Press

Full text available: pdf(482.05 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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the issues and approaches for many types of electronic information retrieval environments. In the prototype we make dynamic use of the structure and sema ...

- 4 Poster session: papers included: Teaming discrete-event simulation and geographic information systems to solve a temporal/spatial business problem 


Richard G. Born

December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**

**Publisher:** Winter Simulation Conference

Full text available:  pdf(479.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Although discrete-event simulation has pedagogically been rooted in computer science, and the practicality of geographic information systems in geography, the combined use of both in the business world allows solving some very challenging temporal/spatial (time and space dependent) business problems. The discrete-event simulation language WebGPSS, an ideal simulation environment for the business person, is teamed with Microsoft MapPoint, a GIS (geographic information system) designed to bring po ...

- 5 Simulation education: simulation as a tool for teaching other concepts I: From emergency departments to cottage cheese to fire departments: learning simulation experimentation through WebGPSS 


Richard G. Born

December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04**

**Publisher:** Winter Simulation Conference

Full text available:  pdf(408.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

An important component of any simulation course is the discussion of experimental design. WebGPSS has been used by the author for two years to discuss experimentation in an introductory course in discrete-event simulation. This paper discusses how to set up simulation experiments using WebGPSS by presenting three business problems whose solutions require careful attention to experimental design. The first problem looks at staffing an emergency department of a hospital with physicians. The second ...

- 6 Simulation education: teaching simulation at an introductory level: WebGPSS: the first two hours of simulation education 


Richard G. Born, Ingolf Ståhl

December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04**

**Publisher:** Winter Simulation Conference

Full text available:  pdf(613.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we present seven short lessons used for introducing management science students to discrete event simulation. It has been used both as the only element of such simulation in courses that devote only two classroom hours to this topic and as the introduction in courses that are devoted almost completely to simulation.

- 7 Simulation education: Introductory teaching of simulation: teaching discrete event simulation to business students: the alpha and omega 

Richard G. Born

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation WSC '03**

**Publisher:** Winter Simulation Conference

Full text available:  pdf(648.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Managers of businesses worldwide are only beginning to realize the economic and improved decision-making value of discrete-event simulation. In order to accelerate the rate at which business managers employ simulation, such a course needs to be taught to more business students than is currently being done. This, in turn, implies the need for an improvement in the teaching of simulation to beginners, so that these fledglings will encourage fellow students to take a course in simulation because ...

8 Simulation education: Simulation textbooks - old and new, panel: simulation text books - old and new (panel)

Thomas J. Schriber, Jerry Banks, Andrew F. Seila, Ingolf Ståhl, Averill M. Law, Richard G. Born

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation WSC '03**

**Publisher:** Winter Simulation Conference

Full text available:  [pdf\(595.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In order to get more people to use simulation, improved teaching of simulation is important. In this context, textbooks and, more generally, teachware play a critical role. The panel looks at some of the older and successful textbooks as well as textbooks and teachware that are quite new and in some cases are still under development.

9 Design expo case studies: 360 degrees of usability

 Michael Morgan, Laura Borns

April 2004 **CHI '04 extended abstracts on Human factors in computing systems CHI '04**

**Publisher:** ACM Press

Full text available:  [pdf\(644.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Global usability testing and gathering ongoing user feedback from initial concept through post launch was critical to the project success. Several different methodologies were deployed during the process. During pre launch, surveys were used to gather high-level feature preference assessments; live baseline usability testing determined areas of the flow that were difficult for users to comprehend and complete. Data from the surveys and baseline usability tests was incorporated into the redesign ...

**Keywords:** evaluation/methodology, graphical user interfaces (GUI), human-centered design, internet e-commerce website, online auctions, usability research, user experience, user research, user-centered design

10 Practitioners report: Experience in developing the urbanSim system: tools and processes

 Bjorn Freeman-Benson, Alan Borning


October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '03**

**Publisher:** ACM Press

Full text available:  [pdf\(58.02 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** CVS, FIT, JUnit, Java, MySQL, UrbanSim, ant, eclipse, environmental impacts, fireman, land use, taskzilla, transportation, urban simulation, wiki

11 An incremental constraint solver

 Bjorn N. Freeman-Benson, John Maloney, Alan Borning

January 1990 **Communications of the ACM**, Volume 33 Issue 1


**Publisher:** ACM Press

Full text available:  [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An incremental constraint solver, the DeltaBlue algorithm maintains an evolving solution to the constraint hierarchy as constraints are added and removed. DeltaBlue minimizes the cost of finding a new solution after each change by exploiting its knowledge of the last solution.



## 12 Panel: Scaling for the masses: usability practices of the web's most popular sites

 Jared M. Spool, Laura Borns, Eleri Dixon, Kevin Knabe, Josh Paluch, David Shen, Marie Tahir  
April 2000 **CHI '00 extended abstracts on Human factors in computing systems CHI '00**

**Publisher:** ACM Press

Full text available:  [pdf\(193.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This panel will include representatives from some of the web's most popular sites. Each reaches millions of users monthly and has its own business model and goals that differ from the others. The panelists will discuss the usability issues confronting sites that serve very large audiences, such as: how best to conduct usability testing on sites with large audiences, how large internal teams can work with multiple contractors and vendors to achieve a usable site, how internationalization affects ...

**Keywords:** international, internet, panel, popular, site, testing, usability, web, website

## 13 Analytic derivation of processor potential utilization in straight line, ring, square mesh, and hypercube networks


 R. G. Born, J. R. Kenevan  
May 1988 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1988 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '88**, Volume 16 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(654.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In multicomputer architectures, in which processors communicate through message-passing, the overhead encountered because of the need to relay messages can significantly affect performance. Based upon some simplifying assumptions including the rate at which a processor generates messages being proportional to its current potential utilization, processor utilizations are analytically derived in matrix form for a bidirectional straight line and square mesh. In addition, closed form derivation ...

## 14 The Cassowary linear arithmetic constraint solving algorithm

 Greg J. Badros, Alan Borning, Peter J. Stuckey  
December 2001 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 8 Issue 4


**Publisher:** ACM Press

Full text available:  [pdf\(693.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Linear equality and inequality constraints arise naturally in specifying many aspects of user interfaces, such as requiring that one window be to the left of another, requiring that a pane occupy the leftmost third of a window, or preferring that an object be contained within a rectangle if possible. Previous constraint solvers designed for user interface applications cannot handle simultaneous linear equations and inequalities efficiently. This is a major limitation, as such systems of constraint ...

**Keywords:** Cassowary, constraint-solving toolkit, constraints, user interface

## 15 Constraint hierarchies

 Alan Borning, Robert Duisberg, Bjorn Freeman-Benson, Axel Kramer, Michael Woolf  
December 1987 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '87**, Volume 22 Issue 12

**Publisher:** ACM Press

Full text available:  [pdf\(1.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Constraints describe relations that must be maintained, and provide a useful tool for such

applications as interactive simulations, algorithm animation, and graphical user interface construction. We describe a major overhaul and extension to the constraint satisfaction mechanism in ThingLab, a constraint-oriented simulation laboratory written in the Smalltalk-80 language. First, a specification is presented of constraint hierarchies. Such hierarchies include both required c ...

16 A constraint extension to scalable vector graphics

 Greg J. Badros, Jojada J. Tirtowidjojo, Kim Marriott, Bernd Meyer, Will Portnoy, Alan Borning  
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**

**Publisher:** ACM Press

Full text available:  [pdf\(364.10 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** CSVG, SVG, constraints, differential scaling, interaction, scalable vector graphics, semantic zooming

17 The Programming Language Aspects of ThingLab, a Constraint-Oriented Simulation Laboratory

 Alan Borning  
October 1981 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,  
Volume 3 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(2.06 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Energizing the nexus of corporate knowledge: a portal toward the virtual organization

Alexander Y. Yap, Niel Børn-Andersen  
December 1998 **Proceedings of the international conference on Information systems ICIS '98**

**Publisher:** Association for Information Systems

Full text available:  [pdf\(351.95 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)


19 Classes versus prototypes in object-oriented languages

A. H. Borning  
November 1986 **Proceedings of 1986 ACM Fall joint computer conference ACM '86**

**Publisher:** IEEE Computer Society Press

Full text available:  [pdf\(575.52 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Constraint cascading style sheets for the Web

 Greg J. Badros, Alan Borning, Kim Marriott, Peter Stuckey  
November 1999 **Proceedings of the 12th annual ACM symposium on User interface software and technology UIST '99**

**Publisher:** ACM Press

Full text available:  [pdf\(121.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Cascading Style Sheets have been introduced by the W3C as a mechanism for controlling the appearance of HTML documents. In this paper, we demonstrate how constraints provide a powerful unifying formalism for declaratively understanding and specifying style sheets for web documents. With constraints we can naturally and declaratively specify complex behavior such as inheritance of properties and cascading of conflicting style rules. We give a detailed description of a constraint-based style ...

**Keywords:** CCSS, CSS, Cassowary, HTML, cascading style sheets, constraints, page layout, style sheets, world wide web

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## 21 [Compiling nested data-parallel programs for shared-memory multiprocessors](#)



Siddhartha Chatterjee

July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 15 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(4.17 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

**Keywords:** compilers, data parallelism, shared-memory multiprocessors

## 22 [Document detection: Inquiry system overview](#)

John Broglio, James P. Callan, W. Bruce Croft

September 1993 **Proceedings of a workshop on held at Fredericksburg, Virginia:**

**September 19-23, 1993**

**Publisher:** Association for Computational Linguistics

Full text available: [pdf\(1.57 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The TIPSTER project in the Information Retrieval Laboratory of the Computer Science Department, University of Massachusetts, Amherst (which includes MCC as a subcontractor), has focused on the following goals: • Improving the effectiveness of information retrieval techniques for large, full-text databases, • Improving the effectiveness of routing techniques appropriate for long-term information needs, and • Demonstrating the effectiveness of these retrieval and routing techniques for ...

## 23 [Sequential thematic organization of publications: how to achieve coherence in proposals and reports](#)



J. R. Tracey, D. E. Rugh, W. S. Starkey

August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue

3

**Publisher:** ACM Press

Full text available: [pdf\(3.80 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

## 24 [Subtopic structuring for full-length document access](#)



Marti A. Hearst, Christian Plaunt

July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '93**

**Publisher:** ACM Press

Full text available:  pdf(1.02 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We argue that the advent of large volumes of full-length text, as opposed to short texts like abstracts and newswire, should be accompanied by corresponding new approaches to information access. Toward this end, we discuss the merits of imposing structure on full-length text documents; that is, a partition of the text into coherent multi-paragraph units that represent the pattern of subtopics that comprise the text. Using this structure, we can make a distinction between th ...

**25** Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available:  pdf(5.28 MB)Additional Information: [full citation](#)**26** Document presentation: Toward tighter tables

Nathan Hurst, Kim Marriott, Peter Moulder

November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

Publisher: ACM Press

Full text available:  pdf(2.82 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Tables are provided in virtually all document formatting systems and are one of the most powerful and useful design elements in current web document standards. Unfortunately, optimal layout of tables which contain text is NP-hard for reasonable layout requirements such as minimizing table height for a given width [1]. We present two new independently-applicable techniques for table layout. The first technique is to solve a continuous approximation to the original layout problem by using a consta ...

**Keywords:** conic programming, optimisation techniques, table layout

**27** Adapting to network and client variability via on-demand dynamic distillation

Armando Fox, Steven D. Gribble, Eric A. Brewer, Elan Amir

October 1996 **ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-VII**, Volume 30 , 31 Issue 5 , 9

Publisher: ACM Press

Full text available:  pdf(1.64 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The explosive growth of the Internet and the proliferation of smart cellular phones and handheld wireless devices is widening an already large gap between Internet clients. Clients vary in their hardware resources, software sophistication, and quality of connectivity, yet server support for client variation ranges from relatively poor to none at all. In this paper we introduce some design principles that we believe are fundamental to providing "meaningful" Internet access for the entire range of ...

**28** Editing and authoring: User-directed analysis of scanned images

Steven J. Simske, Jordi Arnabat

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering DocEng '03**

Publisher: ACM Press

Full text available:  pdf(3.36 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital capture (scanning in all its forms, and digital photography/video recording), in providing virtually free temporary memory of captured information, allows users to "over-


gather" information during capture, and then to discard unwanted material later. For cameras and video recorders, such editing largely consists of discarding images or frames in their entirety. For scanners (and high-resolution camera/video), such editing benefits from a preview capability that provides quick and reliable ...

**Keywords:** bottom-up analysis, classification, click and select, preview display, scanning, segmentation, user interface, zoning

## 29 Document creation I: Creating structured PDF files using XML templates

 Matthew R. B. Hardy, David F. Brailsford, Peter L. Thomas  
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**  
**DocEng '04**

**Publisher:** ACM Press

Full text available:  pdf(166.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper describes a tool for recombining the logical structure from an XML document with the typeset appearance of the corresponding PDF document. The tool uses the XML representation as a template for the insertion of the logical structure into the existing PDF document thereby creating a Structured/Tagged PDF. The addition of logical structure adds value to the PDF in three ways: the accessibility is improved (PDF screen readers for visually impaired users perform better) media options a ...

**Keywords:** PDF, XML, logical structure insertion

## 30 Document formatting: Creating reusable well-structured PDF as a sequence of component object graphic (COG) elements

 Steven R. Bagley, David F. Brailsford, Matthew R. B. Hardy  
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**  
**DocEng '03**

**Publisher:** ACM Press

Full text available:  pdf(458.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Portable Document Format (PDF) is a page-oriented, graphically rich format based on PostScript semantics and it is also the format interpreted by the Adobe Acrobat viewers. Although each of the pages in a PDF document is an independent graphic object this property does not necessarily extend to the components (headings, diagrams, paragraphs etc.) within a page. This, in turn, makes the manipulation and extraction of graphic objects on a PDF page into a very difficult and uncertain process. The wo ...

**Keywords:** PDF, form Xobjects, graphic objects, tagged PDF

## 31 Regular expression types for XML

 Haruo Hosoya, Jérôme Vouillon, Benjamin C. Pierce  
January 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,  
Volume 27 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(349.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose *regular expression types* as a foundation for statically typed XML processing languages. Regular expression types, like most schema languages for XML, introduce regular expression notations such as repetition (&ast;), alternation (&verbar;), etc., to describe XML documents. The novelty of our type system is a semantic presentation of subtyping, as inclusion between the sets of documents denoted by two types. We give several examples illustrating the usefulness of this form of su ...

**Keywords:** Type systems, XML, subtyping

32 A meta-environment for generating programming environments

P. Klint

April 1993 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(1.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Over the last decade, considerable progress has been made in solving the problems of automatic generation of programming/development environments, given a formal definition of some programming or specification language. In most cases, research has focused on the functionality and efficiency of the generated environments, and, of course, these aspects will ultimately determine the acceptance of environment generators. However, only marginal attention has been paid to the development process ...

33 Mobile data management: Mimic: raw activity shipping for file synchronization in mobile file systems

Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

Full text available: pdf(334.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. However ...

**Keywords:** file synchronization, mobile file system, raw activity shipping

34 Making use of document standards and models: A framework for structure, layout & function in documents

John Lumley, Roger Gimson, Owen Rees

November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

Publisher: ACM Press

Full text available: pdf(1.55 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Document Description Framework (DDF) is a representation for variable-data documents. It supports very high flexibility in the type and extent of variation supported, considerably beyond the 'copy-hole' or flow-based mechanisms of existing formats and tools. DDF is based on holding application data, logical data structure and presentation as well as constructional 'programs' together within a single document. DDF documents can be merged with other documents, bound to variable values incrementally ...

**Keywords:** SVG, XML, XSLT, document construction, functional programming

35 Multimedia and visualization (MV): Solving linear and one-way constraints for web document layout

Hiroshi Hosobe

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

Full text available: pdf(102.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The development of information systems such as Web browsers based on open standards is becoming more and more important. To clearly formalize and appropriately implement document layout methods for Web browsers, researchers have proposed an approach that uses constraint programming and solving. However, it is still difficult for existing standard constraint solving techniques to handle Web document layout methods. To tackle this problem, we propose a new algorithm called DuPlex that solves hybri ...

**Keywords:** cassowary, constraints, document layout, simplex method, web browsers

### 36 ALGOL: ALGOL bulletin no. 29



F. G. Duncan

December 1968 **ACM SIGPLAN Notices**, Volume 3 Issue 12

**Publisher:** ACM Press

Full text available: [pdf\(3.84 MB\)](#) Additional Information: [full citation](#)

### 37 Industrial and practical experience track paper session 1: Ranking definitions with supervised learning methods



Jun Xu, Yunbo Cao, Hang Li, Min Zhao

May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web WWW '05**

**Publisher:** ACM Press

Full text available: [pdf\(328.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper is concerned with the problem of definition search. Specifically, given a term, we are to retrieve definitional excerpts of the term and rank the extracted excerpts according to their likelihood of being good definitions. This is in contrast to the traditional approaches of either generating a single combined definition or simply outputting all retrieved definitions. Definition ranking is essential for the task. Methods for performing definition ranking are proposed in this paper, whi ...

**Keywords:** classification, ordinal regression, search of definitions, text mining, web mining, web search

### 38 Software reuse



Charles W. Krueger

June 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(4.96 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software reuse is the process of creating software systems from existing software rather than building software systems from scratch. This simple yet powerful vision was introduced in 1968. Software reuse has, however, failed to become a standard software engineering practice. In an attempt to understand why, researchers have renewed their interest in software reuse and in the obstacles to implementing it. This paper surveys the different approaches to software reuse found in the ...

**Keywords:** abstraction, cognitive distance, software reuse

### 39 Interactive Editing Systems: Part II



Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(9.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



40 [!\[\]\(7e21c3ba61cae16583010dbe84b5ee43\_img.jpg\) Interacting with paper on the DigitalDesk](#)



Pierre Wellner

July 1993 **Communications of the ACM**, Volume 36 Issue 7

**Publisher:** ACM Press

Full text available:  [pdf\(5.32 MB\)](#)

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Result page: [previous](#) [1](#) [2](#) [3](#) [next](#)Relevance scale ☐ ☐ ☐ ☐ ☐**21** [Constraint-based tools for building user interfaces](#)

Alan Borning, Robert Duisberg

October 1986 **ACM Transactions on Graphics (TOG)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(2.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A constraint describes a relation that must be maintained. Constraints provide a useful mechanism to aid in the construction of interactive graphical user interfaces. They can be used to maintain consistency between data and a view of the data, to maintain consistency among multiple views, to specify layout, and to specify relations between events and responses for describing animations of interactive systems and event-driven simulations. Object-oriented techniques for constraint representa ...

**22** [Constraints for the web](#)

Alan Borning, Richard Lin, Kim Marriott

November 1997 **Proceedings of the fifth ACM international conference on Multimedia MULTIMEDIA '97**

Publisher: ACM Press

Full text available: pdf(1.65 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**23** [Solving linear arithmetic constraints for user interface applications](#)

Alan Borning, Kim Marriott, Peter Stuckey, Yi Xiao

October 1997 **Proceedings of the 10th annual ACM symposium on User interface software and technology UIST '97**

Publisher: ACM Press

Full text available: pdf(1.50 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** inequality constraints, linear constraints, simplex algorithm**24** [Indigo: a local propagation algorithm for inequality constraints](#)

Alan Borning, Richard Anderson, Bjorn Freeman-Benson

November 1996 **Proceedings of the 9th annual ACM symposium on User interface software and technology UIST '96**

Publisher: ACM Press

Full text available: pdf(949.43 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** constraints, inequality constraints, local propagation

## 25 Implementing constraint imperative programming languages: the Kaleidoscope'93

### virtual machine

Gus Lopez, Bjorn Freeman-Benson, Alan Borning

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications OOPSLA '94**, Volume 29 Issue 10

**Publisher:** ACM Press

Full text available:  pdf(1.59 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Constraint Imperative Programming (CIP) languages integrate declarative constraints with imperative state and destructive assignment, yielding a powerful new programming paradigm. However, CIP languages are difficult to implement efficiently due to complex interactions between the two donor paradigms. Neither the virtual machines for classical object-oriented languages, nor those for existing constraint languages, are suitable for implementing CIP languages, as each assumes a purely impera ...


**Keywords:** constraint imperative programming, constraints, incremental constraint solving, virtual machines

## 26 A user interface for the electronic encyclopedia exploratorium

### Michael Salisbury, Alan Borning

February 1993 **Proceedings of the 1st international conference on Intelligent user interfaces IUI '93**

**Publisher:** ACM Press

Full text available:  pdf(436.90 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** animation, laboratory areas, refrigerators

## 27 Constraint-based languages and systems (abstract)

### Bjorn Freeman-Benson, Alan Borning

December 1992 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on Object-oriented programming systems, languages, and applications (Addendum) OOPSLA '92**, Volume 4 Issue 2

**Publisher:** ACM Press

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Constraint-Based Languages and Systems  
Bjorn Freeman-Benson , University of Victoria, Canada  
Alan Borning, University of Washington

A constraint is a relation that should be satisfied, for example, that a line remain horizontal, that a resistor in an electrical circuit simulation obey Ohms Law, or that the height of a bar in a bar chart be proportional to some number in an application program. Constraints have been used in a variety of languages and systems, particular ...

## 28 Computer system reliability and nuclear war


### Alan Borning

February 1987 **Communications of the ACM**, Volume 30 Issue 2

**Publisher:** ACM Press


Full text available:

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


 pdf(2.50 MB)[terms](#), [review](#)

Given the devastating consequences of nuclear war, it is appropriate to look at current and planned uses of computers in nuclear weapons command and control systems, and to examine whether these systems can fulfill their intended roles.

## 29 Posters: Eco-informatics and natural resource management

 Judith Bayard Cushing, Tyrone Wilson, Alan Borning, Lois Delcambre, Geoff Bowker, Mike Frame, John Schnase, William Sonntag, Janos Fulop, Carol Hert, Eduard Hovy, Julia Jones, Eric Landis, Charles Schweik, Lawrence Brandt, Valerie Gregg, Sylvia Spengler  
May 2006 **Proceedings of the 2006 international conference on Digital government research dg.o '06**

**Publisher:** ACM Press

Full text available:  pdf(127.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This project highlight reports on the 2004 workshop [1], as well as follow-up activities in 2005 and 2006, regarding how informatics tools can help manage natural resources and decide policy. The workshop was sponsored jointly by sponsored by the NSF, NBII, NASA, and EPA, and attended by practitioners from government and non-government agencies, and university researchers from the computer, social, and ecological sciences. The workshop presented the significant information technology (IT) problem ...

**Keywords:** data quality, eco-informatics, human-computer interaction, information integration, modeling and simulation, web services

## 30 System demonstrations: Opus (the Open Platform for Urban Simulation) and UrbanSim 4

 Paul Waddell, Alan Borning, Hana Ševčíková, David Socha  
May 2006 **Proceedings of the 2006 international conference on Digital government research dg.o '06**

**Publisher:** ACM Press

Full text available:  pdf(145.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This demo will give an introduction to Opus, the Open Platform for Urban Simulation, an Open-Source platform for building simulations of land use, activity-based travel demand, and dynamic traffic assignment. It is a result of an international collaboration of research teams working on integrated land use, transportation and environmental modeling. We have developed a new version of UrbanSim - a simulation system for modeling urban development, originally demonstrated at the Digital Government 2 ...

**Keywords:** modeling systems, urban planning

## 31 E-Cities: UrbanSim: interaction and participation in integrated urban land use, transportation, and environmental modeling

 Alan Borning, Paul Waddell  
May 2006 **Proceedings of the 2006 international conference on Digital government research dg.o '06**

**Publisher:** ACM Press

Full text available:  pdf(121.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The process of planning and constructing a new light rail system or freeway, setting an urban growth boundary, changing tax policy, or modifying zoning and land use plans is often politically charged. Our goal in the UrbanSim project is to provide tools for stakeholders to be able to consider different scenarios, and then to evaluate these scenarios by modeling the resulting patterns of urban growth and redevelopment, of transportation usage, and of environmental impacts, over periods of 20-30 y ...

## 32 Session 6: test automation: Automated testing of stochastic systems: a statistically

grounded approach

Hana Ševčíková, Alan Borning, David Socha, Wolf-Gideon Bleek

July 2006 **Proceedings of the 2006 international symposium on Software testing and analysis ISSTA '06****Publisher:** ACM PressFull text available: [pdf\(215.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Automated tests can play a key role in ensuring system quality in software development. However, significant problems arise in automating tests of stochastic algorithms. Normally, developers write tests that simply check whether the actual result is equal to the expected result (perhaps within some tolerance). But for stochastic algorithms, restricting ourselves in this way severely limits the kinds of tests we can write: either to trivial tests, or to fragile and hard-to-understand tests that re ...

**Keywords:** hypothesis testing, software engineering, software testing, stochastic algorithms, unit tests

### 33 A technical modeler's interface for urbansim, a system for integrated land use, transportation, and environmental modeling

Alan Borning, Paul Waddell

May 2004 **Proceedings of the 2004 annual national conference on Digital government research dg.o '04****Publisher:** Digital Government Research CenterFull text available: [pdf\(16.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Patterns of land use and available transportation systems play a critical role in determining the economic vitality, livability, and sustainability of urban areas. Transportation interacts strongly with land use. For example, automobile-oriented development induces demand for more roads and parking (which in turn induces more automobile-oriented development), while compact, pedestrian-friendly urban environments can induce more walking and demand for transit. Both land use and transportation hav ...

### 34 Integrated land use, transportation, and environmental simulation: UrbanSim project highlights

Alan Borning, Paul Waddell

May 2004 **Proceedings of the 2004 annual national conference on Digital government research dg.o '04****Publisher:** Digital Government Research CenterFull text available: [pdf\(16.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The process of planning and constructing a new light rail system or freeway, setting an urban growth boundary, changing tax policy, or modifying zoning and land use plans is often politically charged. Our goal in the UrbanSim project is to provide tools for planners and stakeholders to be able to consider different scenarios --- packages of possible policies and investments --- and then, based on these alternatives, model the resulting patterns of urban growth and redevelopment, of transportatio ...

### 35 Modeling land use, transportation, and environmental impacts

Alan Borning, John Britting, Paul Waddell, Christopher Forinash

May 2003 **Proceedings of the 2003 annual national conference on Digital government research dg.o '03****Publisher:** Digital Government Research CenterFull text available: [pdf\(11.35 KB\)](#) Additional Information: [full citation](#), [abstract](#)


The overall topic of the panel was modeling urban land use, transportation, and environmental impacts over periods of 20 or more years, under alternate scenarios, with a particular focus on the UrbanSim system. John Britting described the local context at the Wasatch Front Regional Council, the Metropolitan Planning Organization for Salt Lake City and the surrounding area. He described the planning and community visioning projects that have been undertaken, and provided some background about the ...

36 Developing and applying UrbanSim, a system for simulating urban land use, transportation, and environmental impacts

Paul Waddell, Alan Borning

May 2003 **Proceedings of the 2003 annual national conference on Digital government research dg.o '03**

**Publisher:** Digital Government Research Center

Full text available:  pdf(55.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


In this case study, we provide a brief overview of the UrbanSim project and its history, and then suggest some reasons that we believe the project has been successful so far.

37 Short papers: A first analysis of the UsersAward programme from a value sensitive design perspective

Åke Walldius, Yngve Sundblad, Alan Borning

August 2005 **Proceedings of the 4th decennial conference on Critical computing: between sense and sensibility CC '05**

**Publisher:** ACM Press

Full text available:  pdf(260.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The goal of the UsersAward programme is to develop and maintain a strategy for better workplace software through user-driven quality assessment. One of its key activities is the user-driven certification of workplace software using the USER CERTIFIED 2002 instrument. In this paper we present a preliminary analysis of the values that inform the criteria and procedure making up the USER CERTIFIED 2002 instrument, using the Value Sensitive Design methodology. We then propose a set of empirical inve ...

**Keywords:** UsersAward programme, participatory design, user-driven certification of software, value sensitive design, workplace computing

38 Two approaches to casual interaction over computer and video networks

Alan Borning, Michael Travers

March 1991 **Proceedings of the SIGCHI conference on Human factors in computing systems: Reaching through technology CHI '91**

**Publisher:** ACM Press


Full text available:  pdf(753.09 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

39 Data integration and eco-informatics: Eco-informatics and natural resource management

Judith Bayard Cushing, Tyrone Wilson, Alan Borning, Lois Delcambre, Geoff Bowker, Mike Frame, John Schnase, William Sonntag, Janos Fulop, Carol Hert, Eduard Hovy, Julia Jones, Eric Landis, Charles Schweik, Lawrence Brandt, Valerie Gregg, Sylvia Spengler

May 2005 **Proceedings of the 2005 national conference on Digital government research dg.o2005**

**Publisher:** Digital Government Research Center

Full text available:  pdf(60.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Resource managers face significant information technology (IT) problems when integrating ecological or environmental information to make decisions. At this NSF/USGS workshop in December 2004 [1], university researchers, natural resource managers, and information managers articulated five IT problems areas facing ecology and environmental decision makers: policy making and implementation, data presentation, data gaps, tools, and indicators. To alleviate these problems, participants recommended in ...

**Keywords:** data quality, eco-informatics, human-computer interaction, information integration, modeling and simulation, web services

**40** Graphically Defining New Building Blocks in Thinglab

Alan Borning

July 1987 **ACM SIGCHI Bulletin**, Volume 19 Issue 1**Publisher:** ACM PressFull text available: [pdf\(109.42 KB\)](#) Additional Information: [full citation](#), [abstract](#)

This paper discusses cognitive models of learning to program recursion and their relation to lessons on recursion in an intelligent computer tutor for LISP programming (the LISP Tutor). The cognitive models are implemented as production systems in which programming skill is characterized as the decomposition of programming goals into subgoals and elementary actions via the application of programming plans. Two sets of learning mechanisms are used in the cognitive models. *Analogical problem-so ...*

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